



ELECTRONIC INFORMATION DISCLOSURE STATEMENT

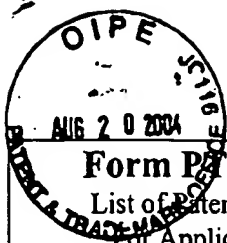
Electronic Version v18
Stylesheet Version v18.0

| Title of Invention | Process Persistence in a Virutal Machine | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|------------|------------|-----------------|------|-------|----------|------|----------|------------|------|----------|------|-------|----------|--|---|---------|------------|---------------|--|--|--|--|---|---------|------------|----------------|--|--|--|--|---|---------|------------|----------|--|--|--|--|---|---------|------------|--------------|--|--|--|--|---|---------|------------|--------------|--|--|--|--|---|---------|------------|----------|--|--|--|--|---|---------|------------|------------|--|--|--|--|---|---------|------------|-----------------|--|--|--|--|---|---------|------------|-------------|--|--|--|--|----|---------|------------|-----|--|--|--|--|----|---------|------------|--------|--|--|--|--|----|---------|------------|----------|--|--|--|--|----|---------|------------|-----------------|--|--|--|--|--|--|--|--|--|--|--|
| <div>Application Number: 09/587078</div> <div>Confirmation Number: 7307</div> <div>First Named Applicant: Bernard Traversat</div> <div>Attorney Docket Number: 5181-63200</div> <div>Art Unit: 2126</div> <div>Examiner: Charles E Anya</div> <div>Search string: (6301582 or 5778443 or 5860083 or 5341484 or 5966702 or 5390334 or 4843541 or 6760815 or 6070173 or 6345276 or 6178519 or 6629113 or 6763440 or 4989131 or 5692192 or 6442663 or 5745703 or 5832529 or 5109486 or 6496871 or 6694346 or 5682535 or 6629113 or 5751613 or 6256637 or 5822590 or 6094528).pn.</div> <div>US Patent Documents</div> <div>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</div> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>6301582</td><td>2001-10-09</td><td>Johnson et al</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>5778443</td><td>1998-07-07</td><td>Swanberg et al</td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>5860083</td><td>1999-01-12</td><td>Sukegawa</td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td>5341484</td><td>1994-08-23</td><td>Tanaka et al</td><td></td><td></td><td></td></tr><tr><td></td><td>5</td><td>5966702</td><td>1999-10-12</td><td>Fresko et al</td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td>5390334</td><td>1995-02-14</td><td>Harrison</td><td></td><td></td><td></td></tr><tr><td></td><td>7</td><td>4843541</td><td>1989-06-27</td><td>Bean et al</td><td></td><td></td><td></td></tr><tr><td></td><td>8</td><td>6760815</td><td>2004-07-06</td><td>Slaughter et al</td><td></td><td></td><td></td></tr><tr><td></td><td>9</td><td>6070173</td><td>2000-05-30</td><td>Huber et al</td><td></td><td></td><td></td></tr><tr><td></td><td>10</td><td>6345276</td><td>2002-02-05</td><td>Lee</td><td></td><td></td><td></td></tr><tr><td></td><td>11</td><td>6178519</td><td>2001-01-23</td><td>Tucker</td><td></td><td></td><td></td></tr><tr><td></td><td>12</td><td>6629113</td><td>2003-09-30</td><td>Lawrence</td><td></td><td></td><td></td></tr><tr><td></td><td>13</td><td>6763440</td><td>2004-07-13</td><td>Traversat et al</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> | | | | | | | | init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass | | 1 | 6301582 | 2001-10-09 | Johnson et al | | | | | 2 | 5778443 | 1998-07-07 | Swanberg et al | | | | | 3 | 5860083 | 1999-01-12 | Sukegawa | | | | | 4 | 5341484 | 1994-08-23 | Tanaka et al | | | | | 5 | 5966702 | 1999-10-12 | Fresko et al | | | | | 6 | 5390334 | 1995-02-14 | Harrison | | | | | 7 | 4843541 | 1989-06-27 | Bean et al | | | | | 8 | 6760815 | 2004-07-06 | Slaughter et al | | | | | 9 | 6070173 | 2000-05-30 | Huber et al | | | | | 10 | 6345276 | 2002-02-05 | Lee | | | | | 11 | 6178519 | 2001-01-23 | Tucker | | | | | 12 | 6629113 | 2003-09-30 | Lawrence | | | | | 13 | 6763440 | 2004-07-13 | Traversat et al | | | | | | | | | | | |
| init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | 6301582 | 2001-10-09 | Johnson et al | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 | 5778443 | 1998-07-07 | Swanberg et al | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 3 | 5860083 | 1999-01-12 | Sukegawa | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 4 | 5341484 | 1994-08-23 | Tanaka et al | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 5 | 5966702 | 1999-10-12 | Fresko et al | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 6 | 5390334 | 1995-02-14 | Harrison | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 7 | 4843541 | 1989-06-27 | Bean et al | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 8 | 6760815 | 2004-07-06 | Slaughter et al | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9 | 6070173 | 2000-05-30 | Huber et al | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 6345276 | 2002-02-05 | Lee | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 6178519 | 2001-01-23 | Tucker | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 6629113 | 2003-09-30 | Lawrence | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 6763440 | 2004-07-13 | Traversat et al | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | |
|--|----|---------|------------|-------------------|
| | 14 | 4989131 | 1991-01-29 | Shaw |
| | 15 | 5692192 | 1997-11-25 | Sudo |
| | 16 | 6442663 | 2002-08-27 | Sun et al |
| | 17 | 5745703 | 1998-04-28 | Cejtin et al |
| | 18 | 5832529 | 1998-11-03 | Wollrath et al |
| | 19 | 5109486 | 1992-04-28 | Seymour |
| | 20 | 6496871 | 2002-12-17 | Jagannathan et al |
| | 21 | 6694346 | 2004-02-17 | Aman et al |
| | 22 | 5682535 | 1997-10-28 | Knudsen |
| | 23 | 6629113 | 2003-09-30 | Lawrence |
| | 24 | 5751613 | 1998-05-12 | Doty et al |
| | 25 | 6256637 | 2001-07-03 | Venkatesh et al |
| | 26 | 5822590 | 1998-10-13 | Gupta |
| | 27 | 6094528 | 2000-07-25 | Jordan |

Signature

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| Examiner Name | Date |
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**Form PTO-1449 (modified)**

List of Patents and Publications

For Applicant's Information

Disclosure Statement

(Use several sheets if necessary)

ATTY. DKT. NO. 5181-63200

APPLICANT: Traversat et al.

FILING DATE: June 2, 2000

SERIAL NO. 09/587,078

GROUP: 2126

U.S. PATENT DOCUMENTS

| EXAM. INITIALS | REF. DES. | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION YES/NO |
|-------------------|--------------|-----------------|------|---------|-------|--------------|-----------------------|
| | | | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAM. INITIALS | REF. DES. | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB CLASS | TRANSLATION YES/NO |
|-------------------|--------------|-----------------|----------|---------|-------|--------------|-----------------------|
| | F1 | 483 525 | 5/6/92 | EP | | | |
| | F2 | 330 087 | 8/30/89 | EP | | | |
| | F3 | 403 124 | 12/19/90 | EP | | | |

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

| | | |
|--|-----|--|
| | F4 | Michael Weber, "Verteilte Systeme," Spektrum, 1998, pp. 258-261. |
| | F5 | Randy Kath, "The Virtual-Memory Manager in Windows NT," Microsoft Developer Network Technology Group, December 21, 1992, 12 pages. |
| | F6 | Murali R. Krishnan, "Heap: Pleasures and Pains," Microsoft Corporation, 2/1999, 6 pages. |
| | F7 | Randy Kath, "Managing Memory-Mapped Files in Win32," Microsoft Developer Network Technology Group, 2/9/93, 9 pages. |
| | F8 | Randy Kath, "Managing Heap Memory in Win32, Microsoft Developer Network Technology Group, 4/3/93, 10 pages. |
| | F9 | Lacapra, et al., "The Virtual Memory Scheme of Cosmos," XP000856970, 1/6/92, pp. 43-51. |
| | F10 | "SourceForge.net: user-mode-linux-user," Internet Document, December 1999, XP002215321, retrieved from http://sourceforge.net/mailarchive/forum.php?forum_id=3647&max_rows=100&style=nested&viewmonth=199912 , 10 pages. |
| | F11 | Art Greenberg, "Re: Flash Memory Based System," Internet Document, Online!, January 26, 1998, XP-002215323, 1 page. |
| | F12 | Daniel Quinlan, "PCI NVRAM Card for Linux?," Internet Document, Online!, March 24, 1999, XP-002215322, 1 page. |
| | F13 | Artosz Klimek, "Re: Against Virtual Memory," Internet Document, Online!, August 9, 1999, XP-002215324, 1 page. |

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